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WEB-BASED ONLINE MEDICINE DELIVERY SYSTEM: E-MEDICINE

Submitted by

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This Project report has been submitted in fulfillment of the requirements for the Degree of Bachelor of Science in Software Engineering.

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APPROVAL (Room- 603)

This thesis titled on "eMedicine", submitted by Md. Naimul Islam Talukder (ID: 181-35-2402) to the Department of Software Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of Bachelor of Science in Software Engineering and approval as to its style and contents.

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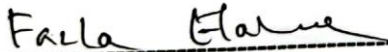
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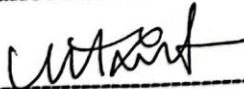
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PROJECT SUMMARY

"eMedicine" is the name of our initiative. eMedicine is a software that allows us to store Medicine Products and Staff Details with a single click. Here, we primarily talk about medications and healthcare supplies. In today's world, people find it uncomfortable to travel in crowded areas. When you are unwell and unable to go outside to get medication, it is quite difficult to do so in the modern world. It is a web-based program that you may use to buy drugs online. Patients can search for any type of medication on this website. The needs of the customer were addressed by this web application development. Online shopping is very popular these days. This web-based solution is helpful whenever we have a manual process because it reduces time and human effort. Customers are given a user-friendly experience through this web application. Truly this method is developed to cut back on the quality of human life. Anyone will order their product simply. It makes a personality's life easier. Anyone can easily order their product. It simplifies a personality's life.

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CHAPTER 1: INTRODUCTION

1.1 Introduction

The pharmacy system over the internet is intended to increase accuracy, strengthen security, and speed up pharmacy operations. It benefits the client by reducing accounting costs and saving time. Utilizing an online order method makes it easier for patients to manage their medication. The system may also have an interactive program so that users can easily access all of the system's features. The classic paper-based system used in the old regular and standard pharmacy is more cumbersome. Using this method, the user can accurately identify medications that have the correct production and expiration dates. Different pharmacies discovered that practically all of them manually record their knowledge like registered books. This type of recording of the client takes longer and is particularly incorrect since it frequently missed the identification of drugs that the one punished the client.

1.2 Motivation

Online pharmacy refers to a pharmacy that operates through the global web. It is beneficial to both the customer and the marketer. It is a home delivery service where users order their required medication online. This 24-hour service provides welcome comfort to those in need of medication. It's mainly beneficial, but there are some unfavorable aspects because of its misapplied use. Some people utilize medications as a drug. This might be avoided. Children should not order medications online. It should be age-restricted.

1.3 Objective

Currently, online searching is quite popular. Here are some goals that we are attempting to achieve.

- It is significantly less expensive than other manual searches and takes less time to locate the drug.
- Dispense drugs precisely.

- To calculate the right dosage of a medication.
- To maintain stock.
- Record and analyze product information.
- To guarantee that system is very easy to use.
- Lessen manual data entering.

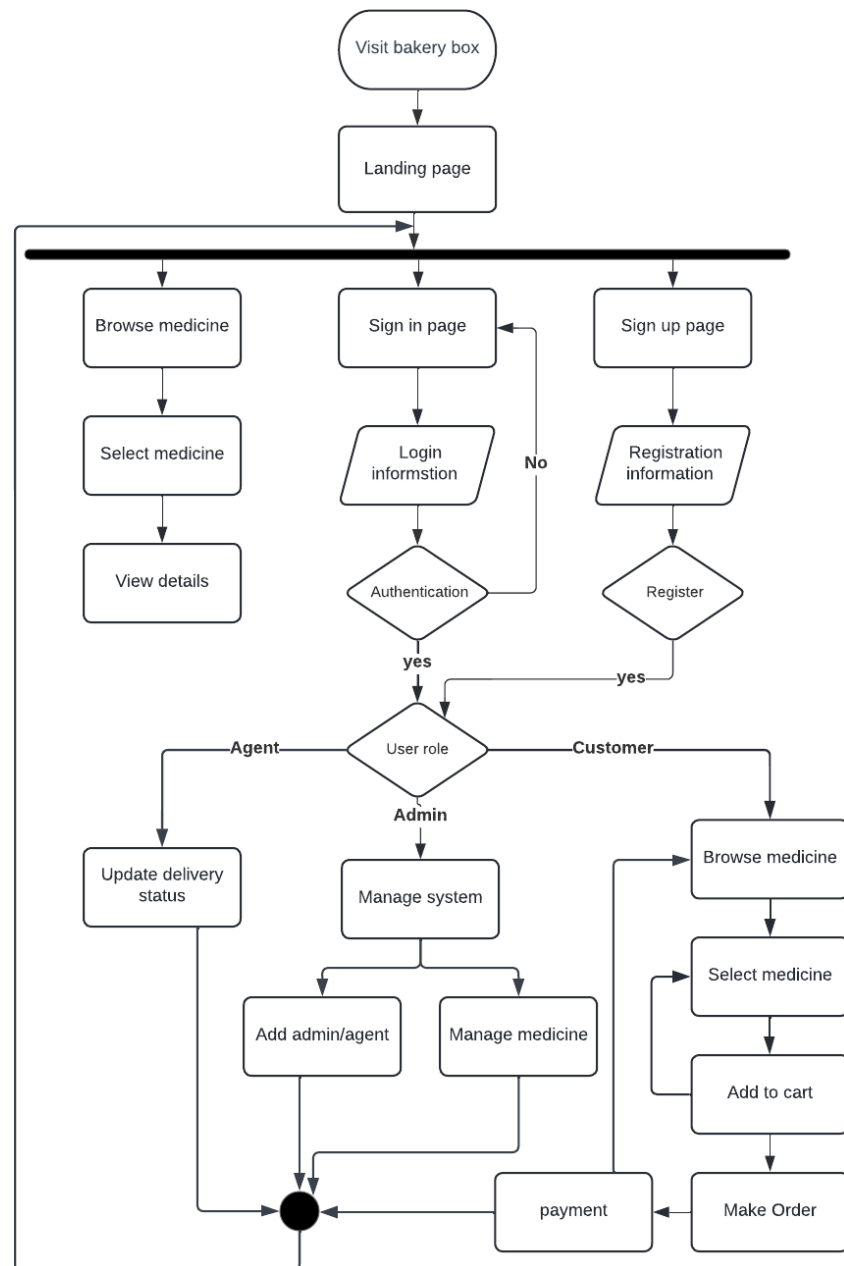
1.4 Expected outcome

- Our website may provide better service and will also be better for people as a consequence of we've examined in a different country website or company operating system.
- Work in manual search is expensive and slow. With the aid of our project, obtaining medications will be simple. Let's say someone became ill or was unable to go anywhere to buy medication. One can easily order their medications through our website.
- The system is enhanced by ensuring efficient service and activity monitoring.

1.5 Stakeholder

- Customer
- Admin
- Agent

1.6 Block diagram



1.7 Project Schedule

1.7.1 Milestones & Project Releasing Schedule

“eMedicine will release on October 20, 2022. The planning is depicted in Figure 1.

1.7.2 Time Schedule

Task Name	Task_ID	Starting Date	Session (days)	Ending Date	Dependencies	Milestone
Landing page	TID01	01/08/22	6	07/08/22		
Registration	TID02	08/08/22	5	13/08/22	T1	
Login	TID03	14/08/22	3	17/08/22	T2	M1
Dashboard	TID04	18/08/22	10	28/08/22	T3	
Product	TID05	29/08/22	6	04/09/22	T4	
Medicine details	TID06	05/09/22	6	11/09/22	T5	M2
Review & Rating	TID07	12/09/22	6	17/09/22	T5, T6	
Add to cart	TID08	18/09/22	10	28/09/22	T5, T6	
Payment	TID09	29/09/22	11	10/10/22	T8	M3

CHAPTER 2

BACKGROUND

2.1 Problem Statement

We are heavily reliant on technology now. This web-based application offers people the fastest and easiest way to get medications and have them delivered to their homes. But some pharmacies use manual methods to serve their customer. They manually manage drug expiry dates, the number of drugs, and stock updates. Working in a large pharmacy with paper records will be monotonous and challenging to maintain track. Furthermore, the medicine order is done manually. The pharmacist must go through the stock balance and make a preliminary estimate of the amount to order before drafting the order, which takes time. Drugs should not be used after their expiration dates. Sometimes staff may provide expired medicine to the customers.

2.2 Related Work

The majority of nations are currently analyzing ways to enhance everyone through exchanging knowledge. The world is becoming more like a tiny town in this new era. People don't have to go outdoors to go shopping for a small pen. Medications are a dire necessity for us. The importance of our daily lives knows no bounds. Our technology makes it easier for people to keep themselves relatively active all day.

2.3 Project Overview

There are three different stakeholder categories in this project. They are customers, admin, and agents. There are two different groups of customers on this website: registered users and casual browsers. When a customer first visits our website, he or she can view all the products and can read all details. But when the customer tries to order any things, they will be unable to do so. They have to be logged in or registered. A user or client can access the website after logging in or registering. Customers may send ratings or product reviews. Customers can add

any item to their shopping cart. Firstly, customers have to make payments to order any item. There will be two options for paying: a bank card and mobile banking apps- Bkash, Rocket, Nagad, and Upay. If the customer is unable to finish the payment stage, the order will be canceled. After successful payment, their order will be confirmed, and they will receive their items the next day. Admin will manage this application. The principal controller of this system is an admin. Admin will see their dashboard once they have entered their right email address and password. The admin has access to all products, can update their profiles, change a user's role from agent to administrator, can add new products, and can view all customers and orders. He or she can check all reviews and adjust the delivery status.

2.4 Scope of the problem

The scope of the disadvantage is as follows:

- Our project is entirely web-based. Once the systems had checked the cardboard balance, it was time to look at the data. But if for some reason a web connection drops, the system cannot submit your profiles.
- Electricity is another prerequisite. There is still no electricity in our nation. Unmatched electricity was required by our system. The entire system shuts down if the power goes off.
- This system is informed that web browsing has been recorded.
- The essential digital instrument for abusing the internet. Comparable to an automated phone, laptop, computer, etc.

CHAPTER 3

SOFTWARE REQUIREMENT SPECIFICATION

3.1 Functional Requirements

Registration

Requirement_ID	FR01
Stakeholder	User
Description	User registration is required to order medicines.

Login

Requirement_ID	FR02
Stakeholder	User, Admin, Agent
Description	Confirm the role and send the user to the dashboard

Review

Requirement_ID	FR03
Stakeholder	User
Description	Users can leave either good or negative feedback about the medicines and services.

Rating

Requirement_ID	FR04
Stakeholder	User
Description	Users can rate the medications.

Medicine list

Requirement_ID	FR05
Stakeholder	User
Description	Medications are listed in order of kind.

Medicine details

Requirement_ID	FR06
Stakeholder	User
Description	The system will add medicines with detailed information.

Payment

Requirement_ID	FR07
Stakeholder	User
Description	The user has the option of making payments online or through COD.

Delivery details

Requirement_ID	FR08
Stakeholder	User, Agent, Admin
Description	User, admin, and agent have the access to see the delivery status and details.

3.2 Data Requirements

Customer

Requirement_ID	DR01
Description	customerID, name, username phone, email.

Medicine

Requirement_ID	DR02
Description	medicineID, name, details, price, stock.

Review

Requirement_ID	DR03
-----------------------	------

Description	reviewID, customerID, review.
--------------------	-------------------------------

3.3 Performance Requirements

Speed and Latency Requirements

Requirement_ID	PR01
Description	This application must load in 5 seconds or less.

Accuracy Requirements

Requirement_ID	PR02
Description	Provide an informative error message

Capacity Requirements

Requirement_ID	PR03
Description	At least 100 requests per second can handle by the server.

3.4 Dependability Requirements

Reliability Requirements

Requirement_ID	DeR01
Description	Users feel confident.

Availability Requirements

Requirement_ID	DeR02
Description	A backup system is always available in case the system fails.

Robustness Requirements

Requirement_ID	DeR03
Description	A scalable system should be created

Safety-Critical Requirements

Requirement_ID	DeR04
Description	This system guards against all spam requests.

3.5 Maintainability and Supportability Requirements

Maintenance Requirements

Requirement_ID	MR03
Description	The backend server will run every time.

Supportability Requirements

Requirement_ID	MR03
Description	Always having customer service support is ideal.

Adaptability Requirements

Requirement_ID	MR03
Description	Users can customize their information.

Scalability or Flexibility Requirements

Requirement_ID	MR01
Description	Development should be robust.

3.6 Security Requirements

Access Requirements

Requirement_ID	SR01
Description	Other users must not have access to a specific user's information.

Integrity Requirements

Requirement_ID	SR02
Description	Data insertion must be controlled.

Privacy Requirements

Requirement_ID	SR03
Description	Using permission classes, all API routes must be secured.

3.7 Usability and Human-Interaction Requirements

Ease of Use Requirements

Requirement_ID	UR01
Description	The user should have the option to personalize their experience. A settings page must be created.

Accessibility Requirements

Requirement_ID	AR01
Description	Customers will have the option to customize their information.

User Documentation Requirements

Requirement_ID	AR02
Description	Every stage should have proper documentation included in writing. A simple Getting Started page is required.

Training Requirements

Requirement_ID	AR03
Description	To efficiently use the system, store owners must receive training.

	It is important to hold training programs so that users may become familiar with the system.
--	--

3.8 Look and Feel Requirements

Appearance Requirements

Requirement_ID	LR01
Description	Soft UI should be considered when developing the system.

Style Requirements

Requirement_ID	LR02
Description	The app's design is inviting and pleasant.

3.9 Operational and Environmental Requirements

Expected Physical Environment

Requirement_ID	OER01
Description	A specific area for personnel and administrators.

Requirements for Interfacing with Adjacent Systems

Requirement_ID	OER02
Description	To keep the system functioning effectively, administrators and personnel must meet.

Projectization Requirements

Requirement_ID	OER03
Description	Release-based deployment.

3.10 Legal Requirements

Compliance Requirements

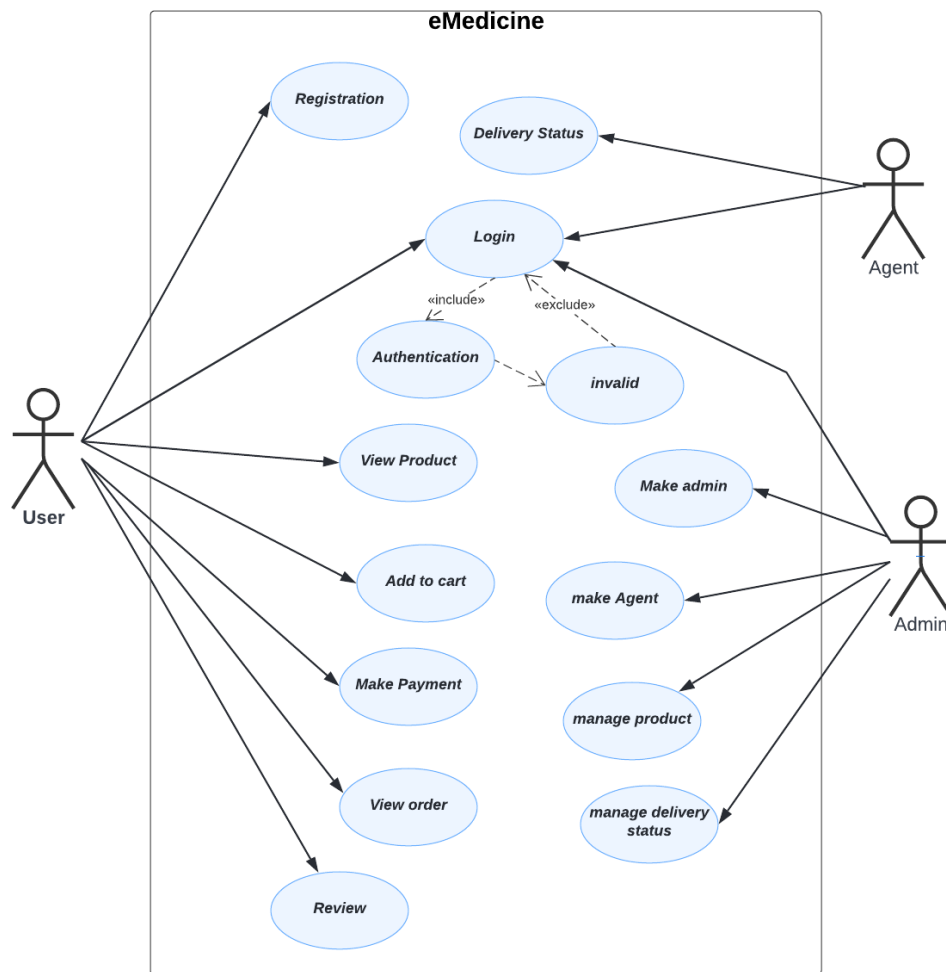
Requirement_ID	LR01
Description	The system was created with no-copyright resources.

Standards Requirements

Requirement_ID	LR02
Description	Static images and fonts are royalty-free.

CHAPTER 4: SYSTEM ANALYSIS

4.1 Use Case Diagram



3.2 Use Case Description

Registration

Name	Registration	
Use case no	1	
Description	To order medications, users must sign up.	
Primary actors	User	
Pre-Condition	All necessary information must be provided.	
Post-Condition	After successfully signing in, the system will redirect to the dashboard.	
Main Scenarios	Step	Actions
Actors/Users	1	Fill in the registration information
	2	Switch to the dashboard
Extensions	Step	Alternative actions
	1	Can register through google or Facebook.
Extensions	Step	Exception actions
	2a	Fill all data
	2b	In the event of a failed attempt, the system alerts the user.

Login

Name	Login	
Use case no	2	
Description	To order medications and manage the system, users, admin and agents must sign in.	
Primary actors	User, Admin, Agent	
Pre-Condition	The user must be signed up.	
Post-Condition	After successfully signing in, the system will redirect to the dashboard.	
Main Scenarios	Step	Actions
Actors/Users	1	Fill in login information
	2	Verify information
	3	Switch to the dashboard
Extensions	Step	Alternative actions
	1	Can log in through google or Facebook.
Extensions	Step	Exception actions
	1a	Fill all data
	2b	In the event of a failed attempt, the system alerts the user.

Medicine details

Name	Medicine details	
Use case no	3	
Description	All the medicines were listed with price and description.	
Primary actors	User	
Pre-Condition	Visit the system.	
Post-Condition	Successfully view medicines.	
Main Scenarios	Step	Actions
Actors/Users	1	Enter both password and username
	2	Verify information
	3	Switch to the dashboard
	4	Search medicine.
	5	View medicines details.
Extensions	Step	Alternative actions
	1	Visit the system.
	2	Search medicine
	3	View medicines details.
Extensions	Step	Exception actions
	2a	Fill in all data.
	2b	In the event of a failed attempt, the system alerts the user.

Add to cart

Name	Add to cart	
Use case no	4	
Description	To order medications, users must sign up.	
Primary actors	User	
Pre-Condition	The user must sign in and select medicine.	
Post-Condition	Successfully store medicine into the card.	
Main Scenarios	Step	Actions
Actors/Users	1	Enter both password and username
	2	Verify information
	3	Switch to the dashboard
	4	Select medicine
Extensions	Step	Alternative actions
	1	Visit the system.
	2	View medicine.
	3	Select medicine.
Extensions	Step	Exception actions
	2a	Fill in all data.
	2b	In the event of a failed attempt, the system alerts the user.

Payment

Name	Payment	
Use case no	5	
Description	The user has the choice to pay either online or by COD.	
Primary actors	User	
Pre-Condition	The user must be signed up.	
Post-Condition	Successfully pay the bill.	
Main Scenarios	Step	Actions
Actors/Users	1	Enter both password and username
	2	Verify information
	3	Switch to the dashboard.
	4	Select medicine.
	5	Store into the cart.
	6	Pay bill.
Extensions	Step	Alternative actions
	1	Visit the system.
	2	View medicine.
	3	Select medicine.
	4	Sign in to the system.
	5	Make Payment
Extensions	Step	Extension actions
	1a	Fill in all data.
	2a	In the event of a failed attempt, the system alerts the user.
	5a	Unknown keyword returns 404.

Order details

Name	Order details	
Use case no	6	
Description	Users can see their order history.	
Primary actors	User	
Pre-Condition	Order medicine.	
Post-Condition	Successfully view order details.	
Main Scenarios	Step	Actions
Actors/Users	1	Enter both password and username
	2	Verify information
	3	Switch to the dashboard.
	4	View order details.
Extensions	Step	Alternative actions
	1	Visit the system.
	2	Click profile.
	3	Sign in to the system.
	4	View order details.
Extensions	Step	Exception actions
	2a	Fill in all data.
	2b	In the event of a failed attempt, the system alerts the user.

Review

Name	Review	
Use case no	7	
Description	Users can leave either good or negative feedback about the medicines and services.	
Primary actors	Customer	
Pre-Condition	The user must be signed up.	
Post-Condition	Successfully update the delivery status.	
Main Scenarios	Step	Actions
Actors/Users	1	Enter both password and username
	2	Verify information
	3	Switch to the dashboard
	4	Update delivery status.
Extensions	Step	Exception actions
	2a	Fill in all data.
	2b	In the event of a failed attempt, the system alerts the user.

Delivery details

Name	Delivery details	
Use case no	8	
Description	The agent can update the delivery status.	
Primary actors	Agent	
Pre-Condition	The agent must be signed in.	
Post-Condition	Successfully update or change delivery status.	
Main Scenarios	Step	Actions
Actors/Users	1	Enter both password and username
	2	Verify information
	3	Switch to the dashboard
	4	Update or change delivery status
Extensions	Step	Alternative actions
	1	Visit the system.
	2	Click on the profile
	3	Sign in to the system
	4	Update or change delivery status
Extensions	Step	Exception actions
	2a	Fill in all data.
	2b	In the event of a failed attempt, the system alerts the user.

Manage medicine

Name	Manage medicine	
Use case no	9	
Description	Admin has the access to add, and delete medicine.	
Primary actors	Admin	
Pre-Condition	The admin must sign in.	
Post-Condition	Successfully update or change medicine information.	
Main Scenarios	Step	Actions
Actors/Users	1	Enter both password and username
	2	Verify information
	3	Switch to the dashboard
	4	Update or change medicine information
Extensions	Step	Alternative actions
	1	Visit the system.
	2	Click on the profile
	3	Sign in to the system
	4	Update or change medicine information.
Extensions	Step	Exception actions
	2a	Fill in all data.
	2b	In the event of a failed attempt, the system alerts the user.

Add admin

Name	Add admin	
Use case no	10	
Description	Admin have the access to add a new admin.	
Primary actors	Admin	
Pre-Condition	The admin must sign in.	
Post-Condition	Successfully add admin.	
Main Scenarios	Step	Actions
Actors/Users	1	Enter both password and username
	2	Verify information
	3	Switch to the dashboard
	4	Add admin
Extensions	Step	Exception actions
	2a	Fill in all data.
	2b	In the event of a failed attempt, the system alerts the user.

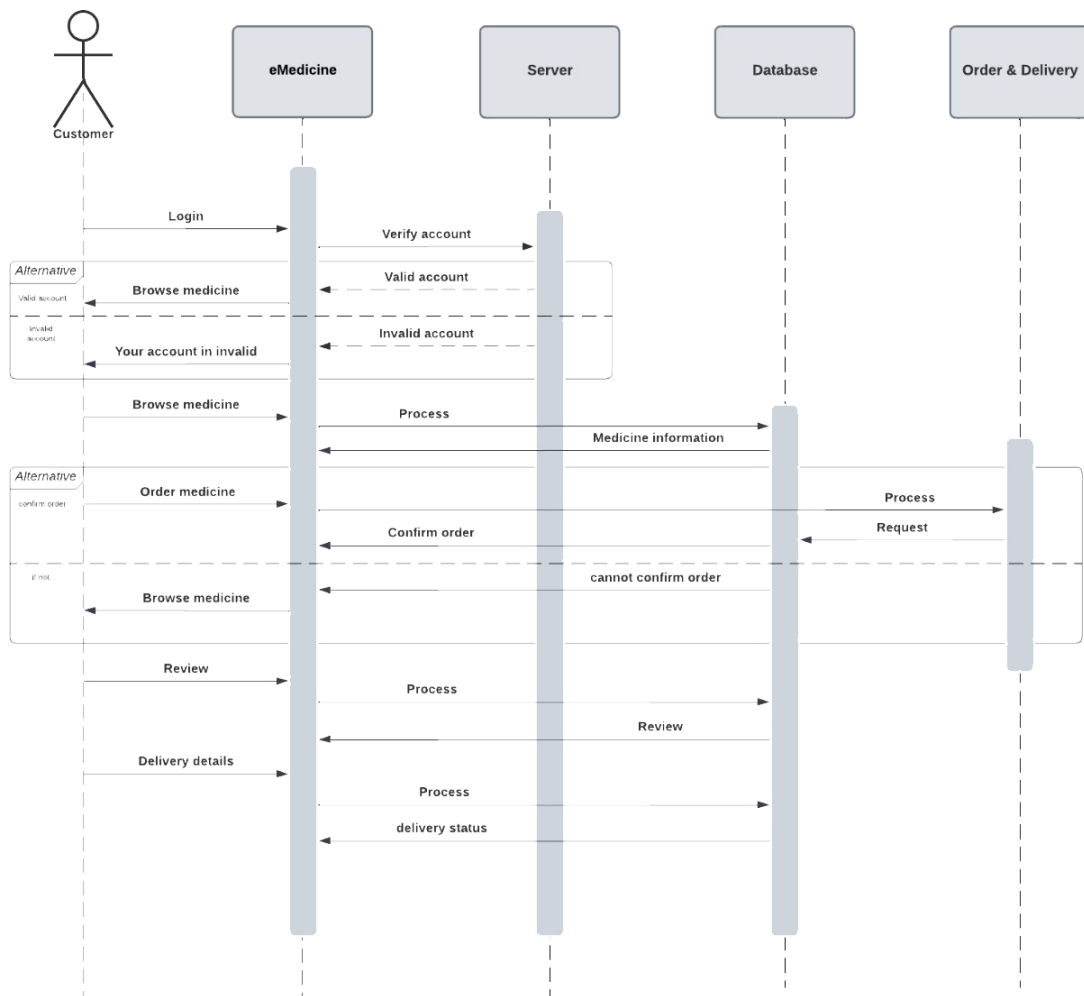
Add Agent

Name	Add Agent	
Use case no	11	
Description	Admin have the access to add a new admin.	
Primary actors	Admin, Agent	
Pre-Condition	The admin must sign in.	
Post-Condition	Successfully add an agent.	
Main Scenarios	Step	Actions
Actors/Users	1	Enter both password and username
	2	Verify information
	3	Switch to the dashboard
	4	Add Agent
Extensions	Step	Exception actions
	2a	Fill in all data.
	2b	In the event of a failed attempt, the system alerts the user.

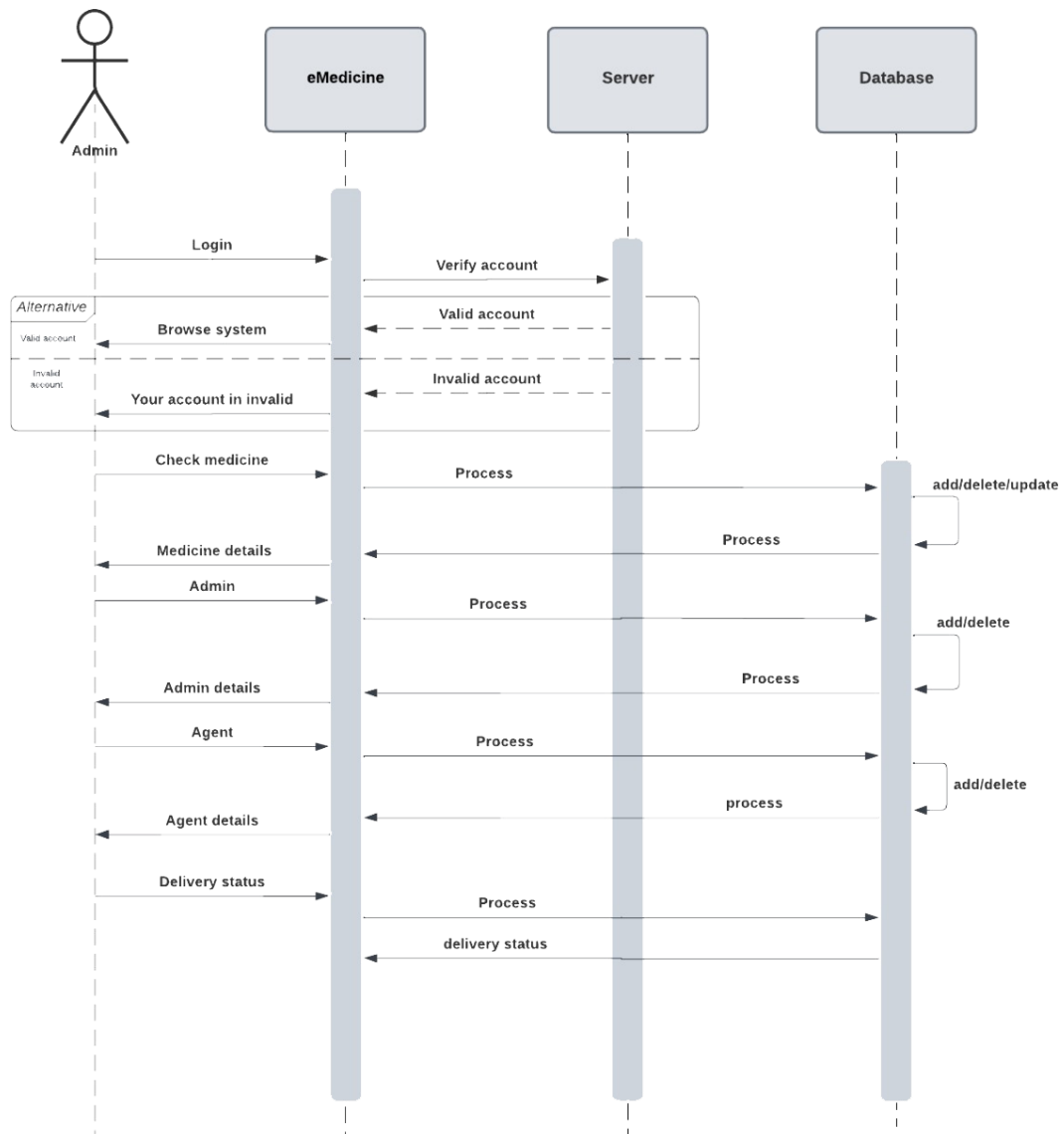
Manage delivery details

Name	Manage delivery details	
Use case no	12	
Description	Agent have the access to update the delivery status.	
Primary actors	Agent	
Pre-Condition	The user must be signed up.	
Post-Condition	Successfully update the delivery status.	
Main Scenarios	Step	Actions
Actors/Users	1	Enter both password and username
	2	Verify information
	3	Switch to the dashboard
	4	Update delivery status.
Extensions	Step	Exception actions
	2a	Fill in all data.
	2b	In the event of a failed attempt, the system alerts the user.

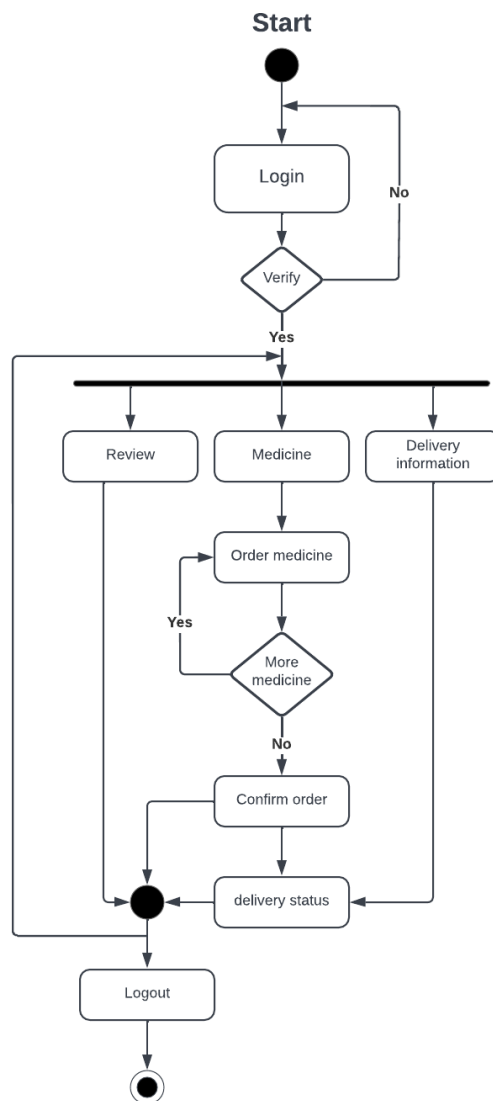
4.3 System Sequence Diagram (Customer)



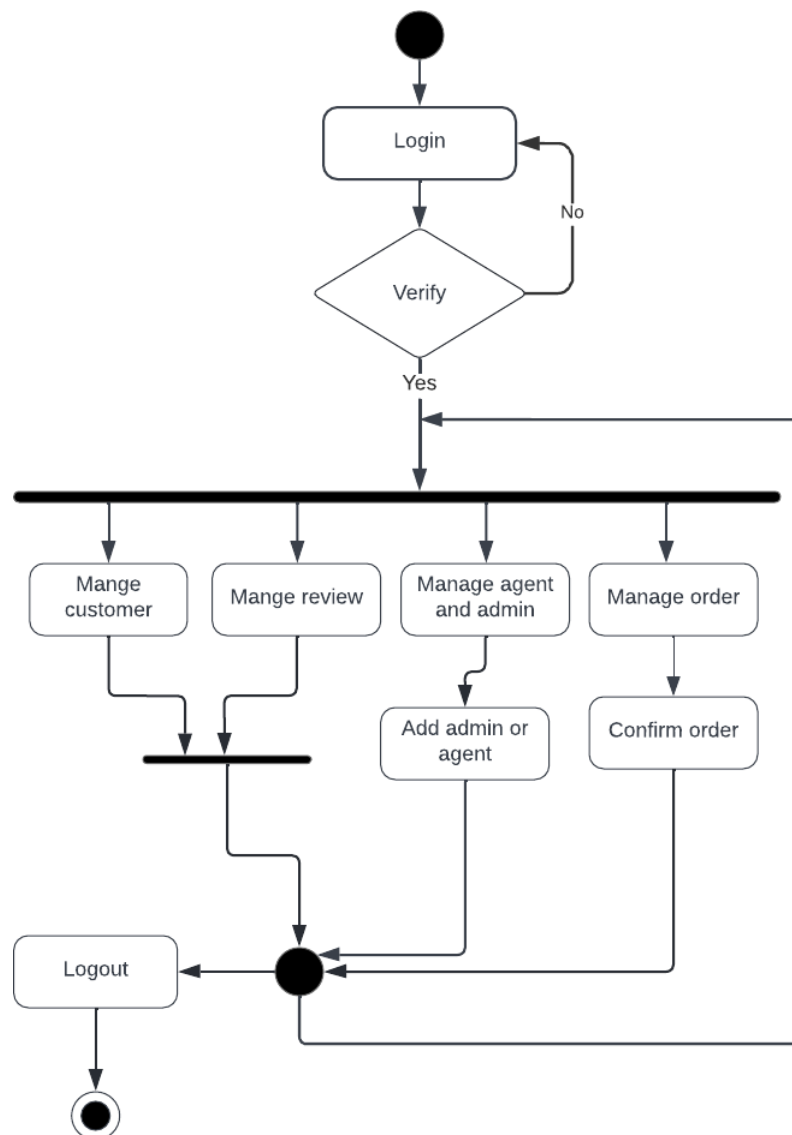
System Sequence Diagram (Admin)



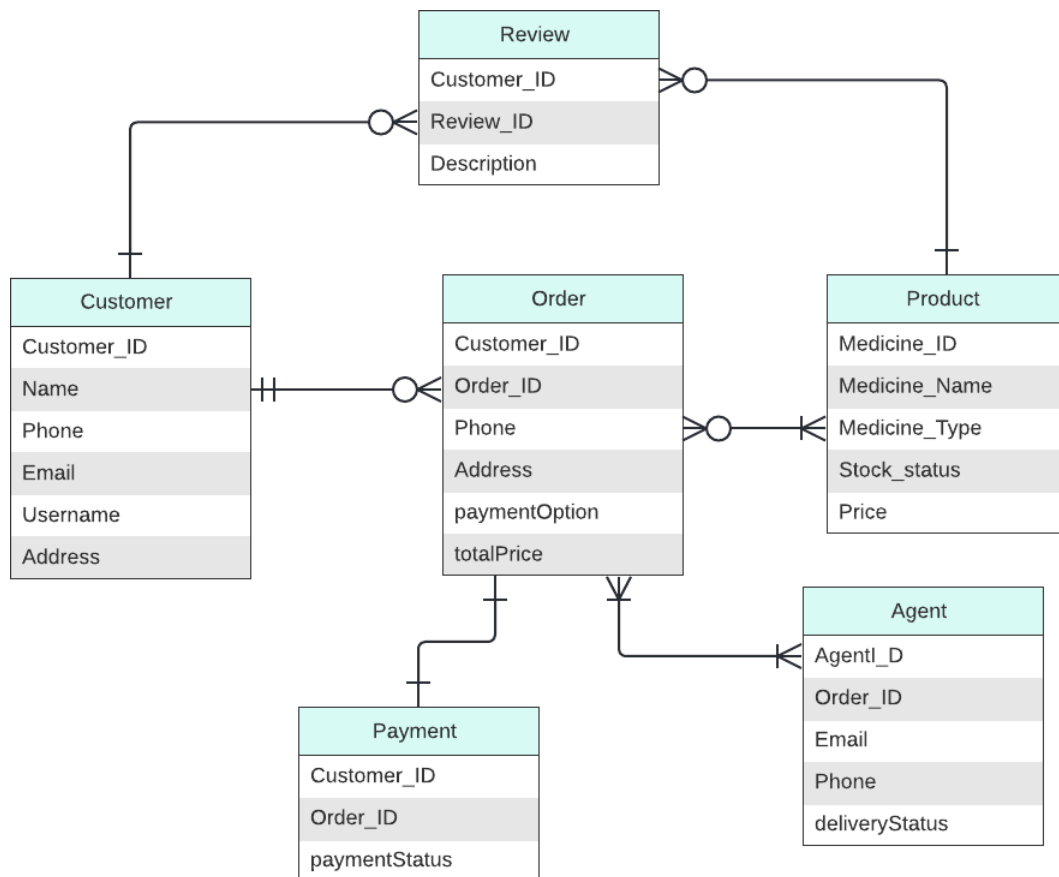
4.4 Activity Diagram (Customer)



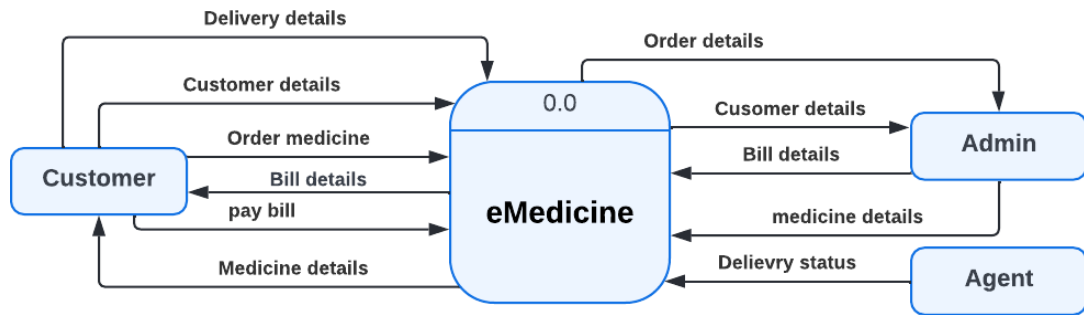
Activity Diagram (Admin)



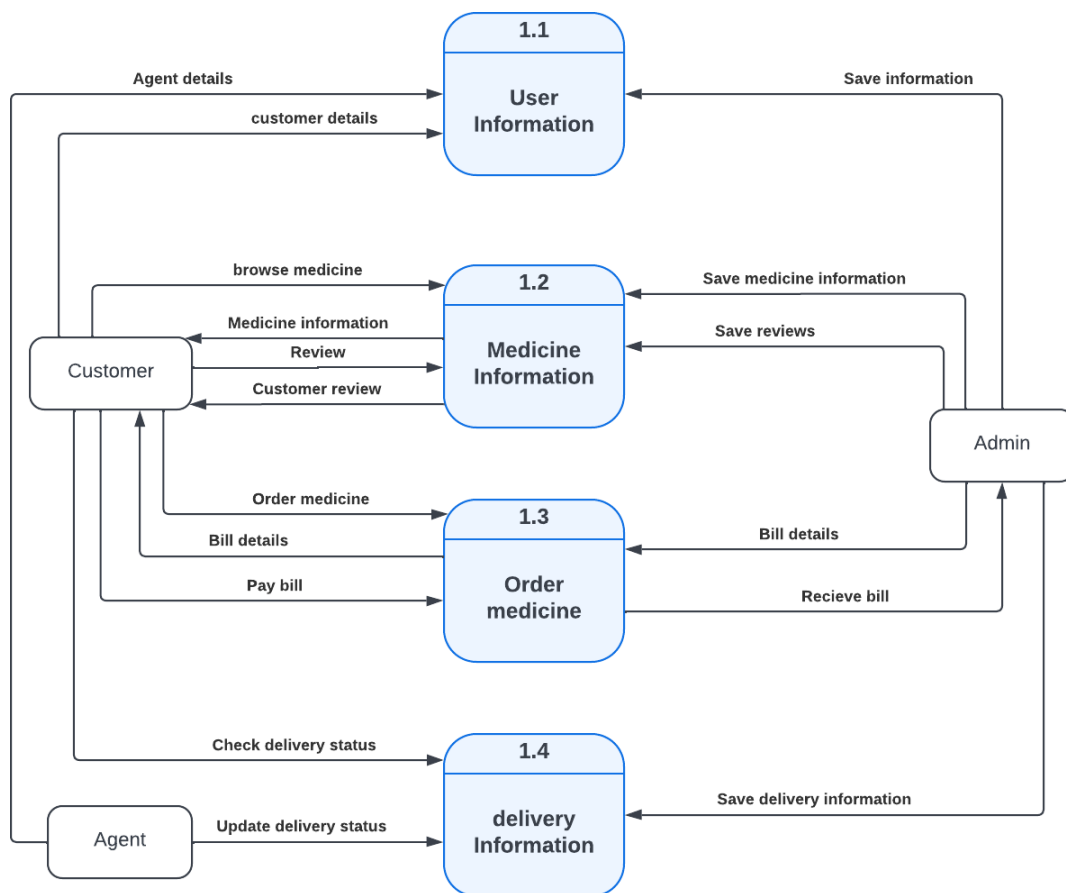
4.5 E-R Diagram



4.6 Dataflow Diagram (level 0)

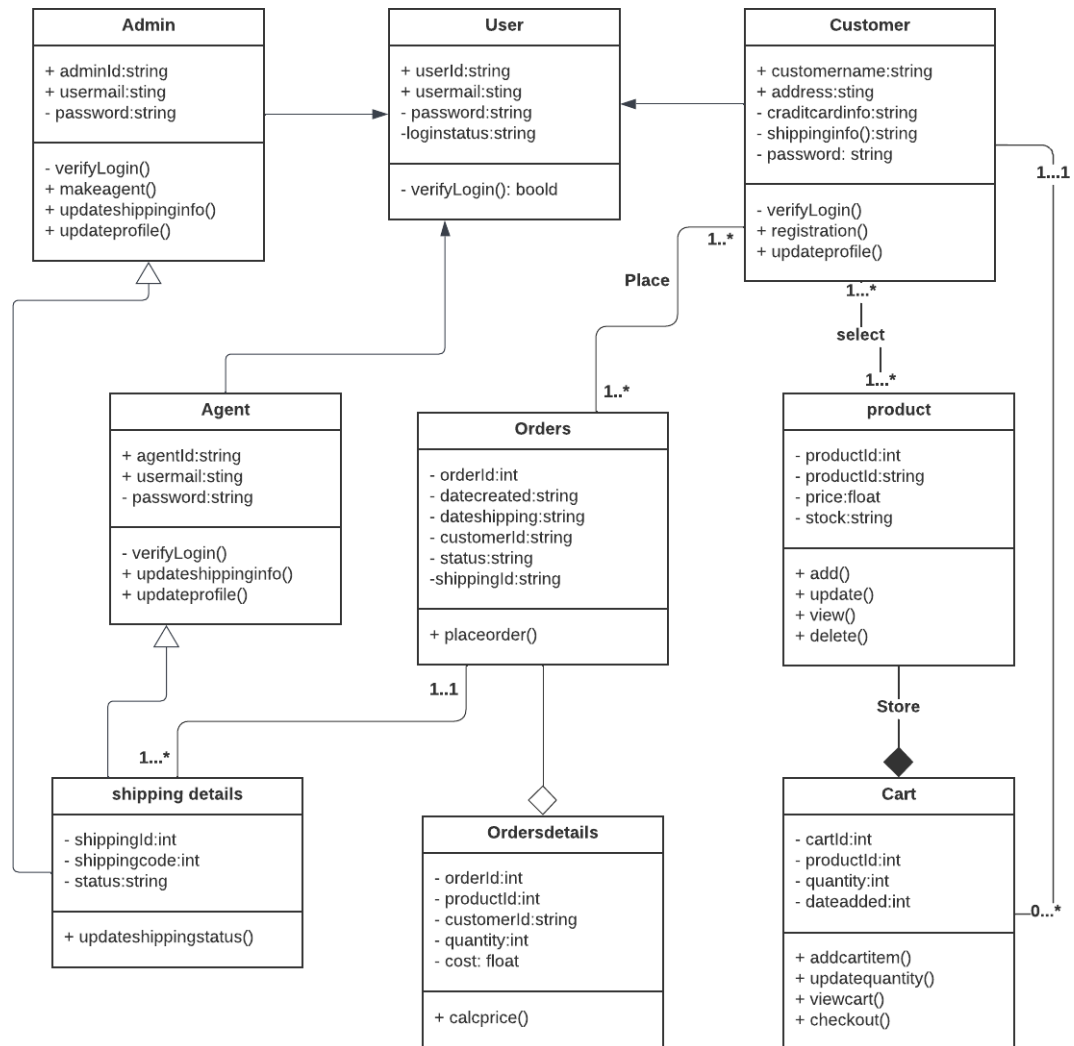


4.7 Dataflow Diagram (level 1)



Chapter 5: System Design Specification

5.1 Class Diagram



5.2 Development Technology

Front-end	HTML
	CSS
	JS(React JS)
Back-end	Node JS
	Express JS
Database	MongoDB

5.3 Hardware requirement

- A laptop or desktop with a minimum Intel Core i3 processor
- RAM: minimum 4 GB
- Hard-drive etc.

CHAPTER 5: SYSTEM TESTING

5.1 Testing Features

The test feature is discussed in this section.

5.1.1 Features to be tested

Test_case no	Feature	Description
T1	Registration	User registration is required to order medicines.
T2	Login	Confirm the role and send the user to the dashboard
T3	Medicine details	The user needs first sign in and then choose medicine and view all details.
T4	Add to cart	Medicines are stored in a cart for purchases.
T5	Payment	The user has the option of paying online or via cash.
T6	Delivery details	The agent can update the delivery status.
T7	Review	Users can leave either good or negative feedback about the medicines and services.
T8	Order details	Users can see their order history.
T9	Manage medicine	Admin can add, remove, and update medications.
T10	Add admin	Admin have the access to add or delete admin.
T11	Add Agent	Admin have the access to add or delete agent.

5.1.2. Test-case Table

Project name: eMedicine					
Test case no: 1			Test case name: Registration		
Use case no: 1			Designed by: Naimul Islam Talukder		
Test Priority: 2			Executed by: Naimul Islam Talukder		
Software version: 1.0			Designed date: 01/10/2022		
Test case version: 1.0			Executed date: 02/10/2022		
Data requirement: User registration data.					
Description: User registration is required to order medicines.					
Pre-Condition: Fill all blank fields with valid information.					
Test case ID	Test steps	Expected result	Actual result	Pass/fail	Comment
TC1	1. Open the system. 2. Click signup. 3. Provide all details. 4. Click submit.	Redirect into the dashboard.	Unable to sign up for this system.	Fail	Fill all the property properly.
TC2	1. Open the system. 2. Click signup. 3. Provide all details. 4. Click submit.	Redirect into the dashboard.	Unable to sign up for this system.	Fail	Fill all the property properly.
TC3	1. Open the system. 2. Click signup. 3. Provide all details. 4. Click submit.	Redirect into the dashboard.	Unable to sign up for this system.	Fail	Fill all the property properly.
TC4	1. Open the system. 2. Click signup. 3. Provide all details. 4. Click submit.	Redirect into the dashboard.	As planned	Pass	Meet requirements.
Post-condition: Move to the dashboard.					

Project name: eMedicine					
Test case no: 2			Test case name: Login		
Use case no: 2			Designed by: Naimul Islam Talukder		
Test Priority: 2			Executed by: Naimul Islam Talukder		
Software version: 1.0			Designed date: 01/10/2022		
Test case version: 1.0			Executed date: 02/10/2022		
Data requirement: User login data.					
Description: Confirm the role and send the user to the dashboard.					
Pre-Condition: Fill all blank fields with valid information.					
Test case ID	Test steps	Expected result	Actual result	Pass/fail	Comment
TC5	1. Open the system. 2. Click signup. 3. Provide all details. 4. Click submit.	Redirect to the login page	Unable to sign in for this system.	Fail	Fill all the property properly.
TC6	1. Open the system. 2. Click signup. 3. Provide all details. 4. Click submit.	Redirect to the login page	As planned	Pass	Meet requirements.
Post-condition: Move to the dashboard.					

Project name: eMedicine					
Test case no: 3			Test case name: Medicine details		
Use case no: 3			Designed by: Naimul Islam Talukder		
Test Priority: 2			Executed by: Naimul Islam Talukder		
Software version: 1.0			Designed date: 01/10/2022		
Test case version: 1.0			Executed date: 02/10/2022		
Data requirement: Medicine data.					
Description: The system will add medicines with detailed information.					
Pre-Condition: Visit the system					
Test case ID	Test steps	Expected result	Actual result	Pass/fail	Comment
TC7	1. Open the system. 2. Click medicine.	Redirect to the medicine info page.	Unable to view medicine information.	Fail	Cannot load the page.
TC8	1. Open the system. 2. Click medicine.	Redirect to the medicine info page.	Unable to view medicine information.	Fail	Cannot load the page.
TC9	1. Open the system. 2. Click medicine.	Redirect to the medicine info page.	As planned	Pass	Meet requirements.
Post-condition: Store medicine in a cart.					

Project name: eMedicine					
Test case no: 4			Test case name: Add to cart		
Use case no: 4			Designed by: Naimul Islam Talukder		
Test Priority: 2			Executed by: Naimul Islam Talukder		
Software version: 1.0			Designed date: 01/10/2022		
Test case version: 1.0			Executed date: 02/10/2022		
Data requirement: Medicine data.					
Description: The user has the option of paying online or via cash.					
Pre-Condition: Visit the system					
Test case ID	Test steps	Expected result	Actual result	Pass/fail	Comment
TC10	1. Open the system. 2. Choose medicine. 3. Store in a cart	Add medicine into a cart.	Unable to store the medicine.	Fail	Cannot store the medicine.
TC11	1. Open the system. 2. Choose medicine. 3. Store in a cart	Add medicine into a cart.	Unable to store the medicine.	Fail	Cannot store the medicine.
TC12	1. Open the system. 2. Choose medicine. 3. Store in the cart.	Add medicine into a cart.	As planned	Pass	Meet requirements.
Post-condition: Move to the dashboard.					

Project name: eMedicine					
Test case no: 5			Test case name: Payment		
Use case no: 5			Designed by: Naimul Islam Talukder		
Test Priority: 3			Executed by: Naimul Islam Talukder		
Software version: 1.0			Designed date: 01/10/2022		
Test case version: 1.0			Executed date: 02/10/2022		
Data requirement: User login data.					
Description: The user has the option of paying online or via cash.					
Pre-Condition: Fill all blank fields with valid information.					
Test case ID	Test steps	Expected result	Actual result	Pass/fail	Comment
TC13	1. Open the system. 2. Sign in to the system. 3. Store the medicine in the cart. 4. Proceed payment.	Redirect into the dashboard.	Fail transaction.	Fail	Fill all the property properly.
TC14	1. Open the system. 2. Sign in to the system. 3. Store the medicine in the cart. 4. Proceed payment.	Redirect into the dashboard.	Fail transaction.	Fail	Fill all the property properly.
TC15	1. Open the system. 2. Sign in to the system. 3. Store the medicine in the cart. 4. Proceed payment.	Redirect into the dashboard.	Fail transaction.	Fail	Fill all the property properly.
TC16	1. Open the system. 2. Sign in to the system. 3. Store the medicine in the cart. 4. Proceed payment.	Redirect into the dashboard.	As planned	Pass	Meet requirements.
Post-condition: Move to the dashboard.					

Project name: eMedicine					
Test case no: 6			Test case name: Delivery details		
Use case no: 8			Designed by: Naimul Islam Talukder		
Test Priority: 2			Executed by: Naimul Islam Talukder		
Software version: 1.0			Designed date: 01/10/2022		
Test case version: 1.0			Executed date: 02/10/2022		
Data requirement: Medicine data.					
Description: The agent can update the delivery status.					
Pre-Condition: Visit the system					
Test case ID	Test steps	Expected result	Actual result	Pass/fail	Comment
TC17	1. Open the system. 2. Sign in to the system. 3. Update delivery status.	Update delivery status.	Unable to update status.	Fail	Fill all the property properly
TC18	1. Open the system. 2. Sign in to the system. 3. Update delivery status.	Update delivery status.	As planned	Pass	Meet requirements.
Post-condition: Move to the dashboard.					

Project name: eMedicine					
Test case no: 7			Test case name: Review		
Use case no: 7			Designed by: Naimul Islam Talukder		
Test Priority: 2			Executed by: Naimul Islam Talukder		
Software version: 1.0			Designed date: 01/10/2022		
Test case version: 1.0			Executed date: 02/10/2022		
Data requirement: Medicine data.					
Description: Users can leave either good or negative feedback about the medicines and services.					
Pre-Condition: Visit the system					
Test case ID	Test steps	Expected result	Actual result	Pass/fail	Comment
TC19	1. Open the system. 2. Sign in to the system. 3. Update delivery status.	Update delivery status.	Unable to update status.	Fail	Fill all the property properly
TC20	1. Open the system. 2. Sign in to the system. 3. Update delivery status.	Update delivery status.	As planned	Pass	Meet requirements.
Post-condition: View review.					

Project name: eMedicine					
Test case no: 8			Test case name: Order details		
Use case no: 6			Designed by: Naimul Islam Talukder		
Test Priority: 2			Executed by: Naimul Islam Talukder		
Software version: 1.0			Designed date: 01/10/2022		
Test case version: 1.0			Executed date: 02/10/2022		
Data requirement: Order data.					
Description: Users can see their order history.					
Pre-Condition: Order medicine.					
Test case ID	Test steps	Expected result	Actual result	Pass/fail	Comment
TC21	1. Open the system. 2. Sign in to the system. 3. Update delivery status.	Update delivery status.	Unable to update status.	Fail	Fill all the property properly
TC22	1. Open the system. 2. Sign in to the system. 3. Update delivery status.	Update delivery status.	As planned	Pass	Meet requirements.
Post-condition: View order details.					

Project name: eMedicine					
Test case no: 9			Test case name: Manage medicine		
Use case no: 9			Designed by: Naimul Islam Talukder		
Test Priority: 2			Executed by: Naimul Islam Talukder		
Software version: 1.0			Designed date: 01/10/2022		
Test case version: 1.0			Executed date: 02/10/2022		
Data requirement: Medicine data.					
Description: Admin has the access to add, and delete medicine.					
Pre-Condition: Order medicine.					
Test case ID	Test steps	Expected result	Actual result	Pass/fail	Comment
TC23	1. Open the system. 2. Sign in to the system. 3. Update medicine information.	Update medicine data.	Unable to edit.	Fail	Fill all the property properly
TC24	1. Open the system. 2. Sign in to the system. 3. Update medicine information.	Update medicine data.	Unable to delete it.	Fail	Fill all the property properly
TC25	1. Open the system. 2. Sign in to the system. 3. Update delivery status.	Update medicine data.	As planned	Pass	Meet requirements.
Post-condition: View medicines details.					

Project name: eMedicine					
Test case no: 10			Test case name: Add admin		
Use case no: 10			Designed by: Naimul Islam Talukder		
Test Priority: 2			Executed by: Naimul Islam Talukder		
Software version: 1.0			Designed date: 01/10/2022		
Test case version: 1.0			Executed date: 02/10/2022		
Data requirement: Admin data.					
Description: Admin has the access to add or delete admin.					
Pre-Condition: Order medicine.					
Test case ID	Test steps	Expected result	Actual result	Pass/fail	Comment
TC26	1. Open the system. 2. Sign in to the system. 3. Add/delete admin.	Update admin data.	Unable to update.	Fail	Fill all the property properly
TC27	1. Open the system. 2. Sign in to the system. 3. Add/delete admin.	Update admin data.	As planned	Pass	Meet requirements.
Post-condition: View admin details.					

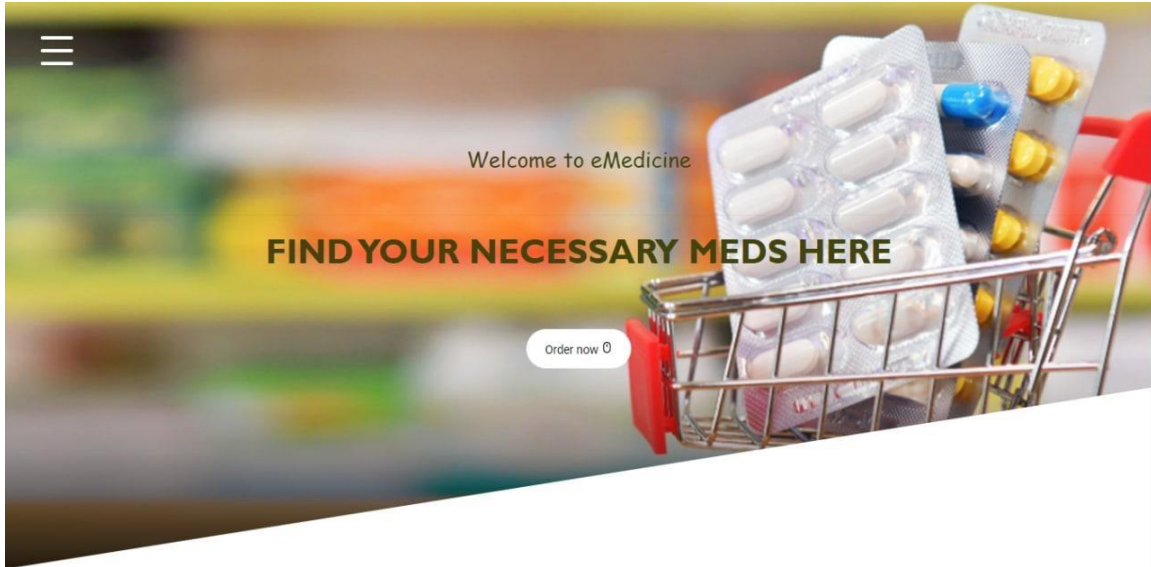
Project name: eMedicine					
Test case no: 11			Test case name: Add agent		
Use case no: 11			Designed by: Naimul Islam Talukder		
Test Priority: 2			Executed by: Naimul Islam Talukder		
Software version: 1.0			Designed date: 01/10/2022		
Test case version: 1.0			Executed date: 02/10/2022		
Data requirement: Admin data.					
Description: Admin have the access to add or delete agent.					
Pre-Condition: Order medicine.					
Test case ID	Test steps	Expected result	Actual result	Pass/fail	Comment
TC28	1. Open the system. 2. Sign in to the system. 3. Add/delete agent.	Update agent data.	Unable to update.	Fail	Fill all the property properly
TC29	1. Open the system. 2. Sign in to the system. 3. Add/delete agent.	Update agent data.	Unable to update.	Fail	Fill all the property properly
TC30	1. Open the system. 2. Sign in to the system. 3. Add/delete agent.	Update agent data.	As planned	Pass	Meet requirements.
Post-condition: View admin details.					

5.1.3 Traceability Matrix

Req. No	Req. Title	Test_case ID	Status
1	Registration	TC1, TC2, TC3, TC4	TC1: Fail TC2: Fail TC3: Fail TC4: Pass
2	Login	TC5, TC6	TC5: Pass TC6: Fail
3	Medicine details	TC7, TC8, TC9	TC7: Fail TC8: Fail TC9: Pass
4	Add to cart	TC10, TC11, TC12	TC10: Fail TC11: Fail TC12: Pass
5	Payment	TC13, TC14, TC15, TC16	TC13: Pass TC14: Pass TC15: Pass TC16: Fail
6	Delivery details	TC17, TC18	TC17: Fail TC18: Pass
7	Review	TC19, TC20	TC19: Fail TC20: Pass
8	Order details	TC21, TC22	TC21: Fail TC22: Pass
9	Manage medicine	TC23, TC24, TC25	TC23: Fail TC18: Fail TC19: Pass
10	Add admin	TC26, TC27	TC26: Fail TC27: Pass
11	Add Agent	TC28, TC29, TC30	TC29: Fail TC30: Fail TC31: Pass

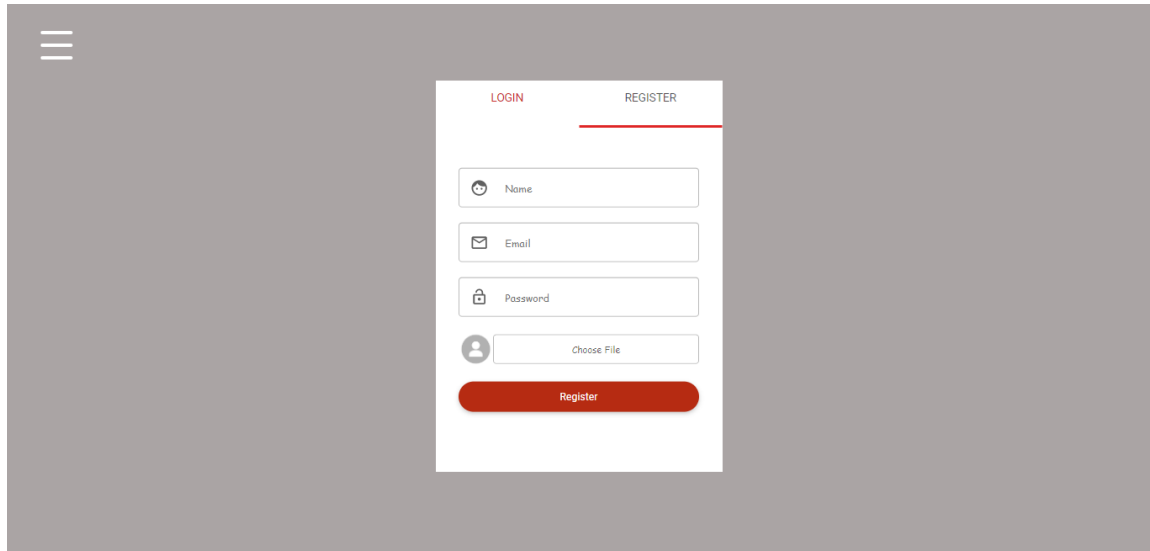
CHAPTER 6: USER MANUAL

6.1 Landing page



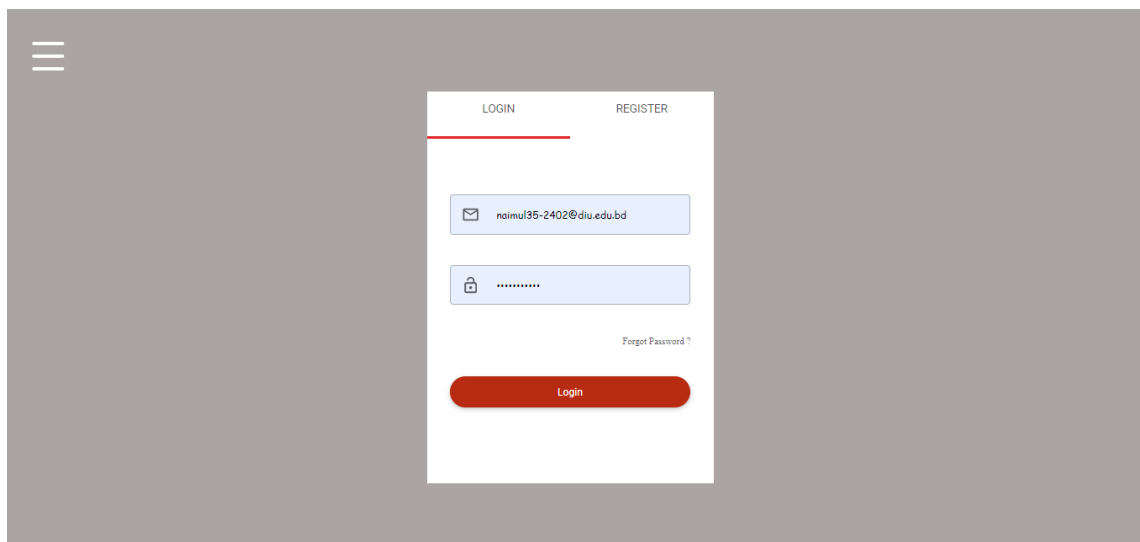
6.2 User manual (Customer)

(Customer registration page)



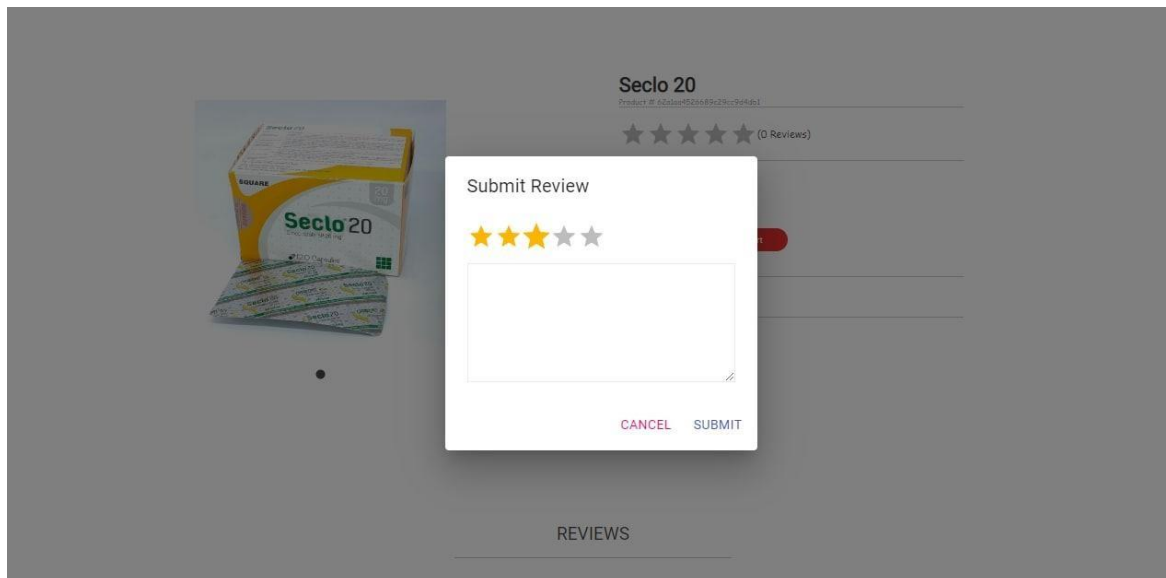
A mockup of a customer registration page. The page has a grey background and a white registration form in the center. The form has two tabs: 'LOGIN' and 'REGISTER', with 'REGISTER' being the active tab. The form contains four input fields: 'Name' with a person icon, 'Email' with an envelope icon, 'Password' with a lock icon, and a 'Choose File' button with a person icon. Below these fields is a red 'Register' button. A hamburger menu icon is visible in the top left corner.

(Customer login page)

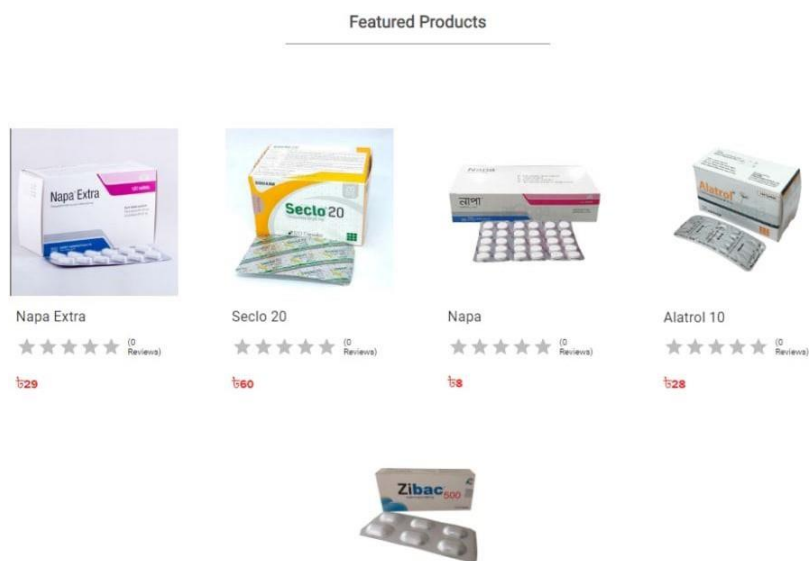


A mockup of a customer login page. The page has a grey background and a white login form in the center. The form has two tabs: 'LOGIN' and 'REGISTER', with 'LOGIN' being the active tab. The form contains two input fields: 'Email' with an envelope icon and 'Password' with a lock icon. The email field contains the text 'naimul35-2402@diu.edu.bd' and the password field contains '*****'. Below the password field is a link that says 'Forgot Password?'. At the bottom of the form is a red 'Login' button. A hamburger menu icon is visible in the top left corner.

(Customer review page)



(Medicine page)



(Medicine information page)



Seclo 20

Product # 62a1ae4526b89c29cc9d4db1



(0 Reviews)

660



Add to Cart

Status: **In Stock**

Description :
Acidity

[Submit Review](#)

REVIEWERS

(Order product list page)

Product	Quantity	Subtotal
 Napa Extra Price: ₺29 Remove	- 1 +	₺29
 Seclo 20 Price: ₺60 Remove	- 1 +	₺60
Gross Total		₺89
Check Out		

(Shipping details page)

Shipping Details

Confirm Order

Payment

Shipping Details

 saghdf

 Uttara

 126523

 01873874347

 Bangladesh

 Dhaka District

Continue

(Confirm order page)

Shipping Details

Confirm Order

Payment

Shipping Info

Name: Md.Naimul Islam Talukder

Phone: 01873874347

Address: saghdf, Uttara, 13, 126523, BD

Your Cart Items:

 Napa Extra

1 X ~~₳29~~ = **₳29**

 Seclo 20

1 X ~~₳60~~ = **₳60**

Order Summery

Subtotal:

₳89

Shipping Charges:

₳50

GST:

₳4.45

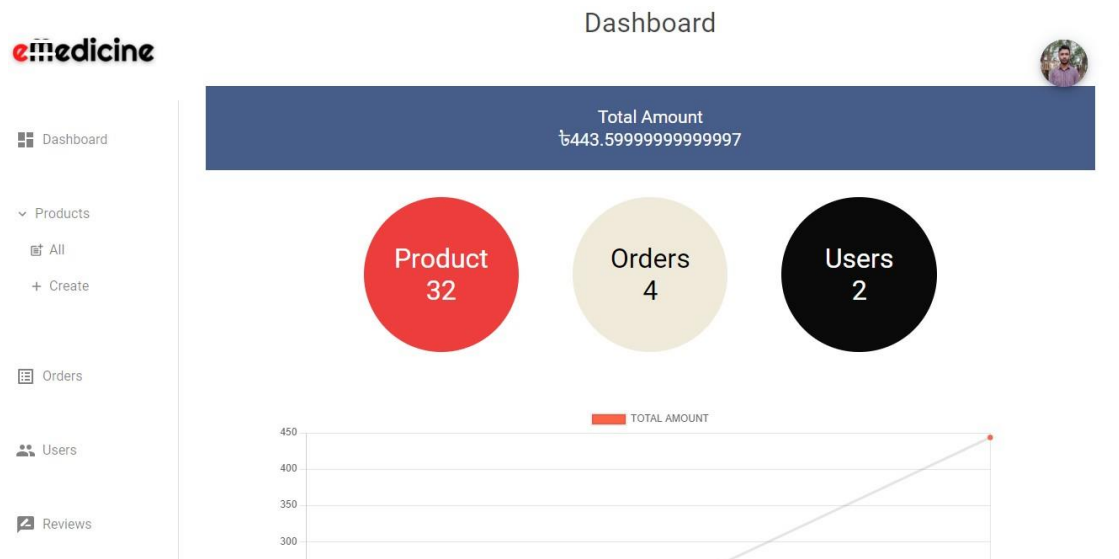
Total:

₳143.45

Proceed to payment

6.2 User manual (Admin)

(Admin dashboard)



CHAPTER 7: CONCLUSION

7.1 GitHub Link

7.2 Discussion

In conclusion, online pharmacies are a situation where significant conflicts arise between the idea that people should be able to choose their purchases based on their own interests on the one hand, and the demand that the state should prevent people from harming themselves and should use public resources fairly and efficiently, as well as for the cost of social cohesion. A two-level approach may be used to increase the benefits and decrease the hazards associated with online pharmacy. The ability of consumers to choose their purchases based on their interests on the one hand, and the opposite demand that the state should regulate commerce on the other, present fundamental issues in the case of online pharmacies. A two-level strategy might be used. The primary level should focus on policy, with laws regulating global development and filling the current legislative void, even if, as stated above, this could be extremely difficult, expensive, and only partially effective. The individual must be the focus of the second level. As the basis of critical thinking and aptitude is required for making appropriate health decisions, recognizing dangers, and taking use of the myriad opportunities provided by the world of medicine, this strategy should strive to increase health acquisition. we are wasting our time. This website is entirely free, making it handy for everyone who wants access to medical assistance as quickly as possible. People can receive assistance, search for medications, or browse based on their class on this page. Finally, we can state that this platform will assist everyone who is interested. It will make it easier for people to become softer. Additionally, the people who

are unable to move freely will still benefit from this method. The online store known as Medical-Store is where we may get any medications without a prescription.

7.3 Future Scope

Numerous further possibilities will be added in the future. With several cutting-edge features, it will encapsulate the automaton mobile application. I have planned to build this website as a company website that can also function as an e-commerce site. I'll hire some delivery personnel to bring the medications to you. To attract many clients and improve the system's quality, I will use extensive information processing and machine learning techniques once the system has been launched and we have access to a large amount of client data and reviews. I also include an AI chatbot to respond to customer inquiries fast.